

CLAIM AMENDMENTS

Please amend the claims as indicated herein:

1 1. *(currently amended)* A structural reflective insulating material comprising:
2 a first outer layer of metal foil;
3 an adhesive binding coating material on an inner side of said first outer
4 layer of reflective foil;
5 at least a first layer of foam material secured to said first layer of said
6 reflective foil;
7 at least one layer of mesh material sandwiched between at least said first
8 layer of foam material and at least a second layer of foam material;
9 at least a second layer of foam material;
10 a coating or adhesive binding material between at least a second layer
11 of foam material and at least a second inner layer of reflective foil; and
12 at least a second layer of reflective foil bound to at least a second layer
13 of foam material by the adhesive binding material[.] ;
14 wherein the structural reflective insulating material is pliable so it is
15 capable of being formed into ducts and other structural items.

1 2. *(original)* The structural reflective insulating material of claim 1 wherein
2 at least one of said first outer and second inner layers of reflective foil is aluminum.

1 3. *(original)* The structural reflective insulating material of claim 1 wherein
2 at least one of the first and second layers of foam material comprise polyethylene
3 foam.

1 4. *(original)* The structural reflective insulating material of claim 2 wherein
2 at least one of the first and second layers of foam material comprise polyethylene
3 foam.

1 5. *(original)* The structural reflective insulating material of claim 1 wherein
2 the coating of adhesive binding material is polyurethane.

1 6. *(original)* The structural reflective insulating material of claim 2 wherein
2 the coating of adhesive binding material is polyurethane.

1 7. *(original)* The structural reflective insulating material of claim 3 wherein
2 the coating of adhesive binding material is polyurethane.

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1 8. *(original)* The structural reflective insulating material of claim 4 wherein
2 the coating of adhesive binding material is polyurethane.

1 9. *(currently amended)* The structural reflective insulating material of claim
2 1 wherein the mesh material is one from a group consisting of ~~and~~ aluminum or
3 galvanized steel.

1 10. *(currently amended)* The structural reflective insulating material of claim
2 2 wherein the mesh material is one from a group consisting of aluminum of and
3 galvanized steel.

1 11. *(currently amended)* The structural reflective insulating material of claim
2 3 wherein the mesh material is one from a group consisting of aluminum of and
3 galvanized steel.

1 12. *(currently amended)* The structural reflective insulating material of claim
2 4 wherein the mesh material is one from a group consisting of aluminum of and
3 galvanized steel.

1 13. *(currently amended)* The structural reflective insulating material of claim
2 5 wherein the mesh material is one from a group consisting of aluminum of and
3 galvanized steel.

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1 14. *(currently amended)* The structural reflective insulating material of claim
2 6 wherein the mesh material is one from a group consisting of aluminum of and
3 galvanized steel.

1 15. *(currently amended)* The structural reflective insulating material of claim
2 7 wherein the mesh material is one from a group consisting of aluminum of and
3 galvanized steel.

1 16. *(currently amended)* The structural reflective insulating material of claim
2 8 wherein the mesh material is one from a group consisting of aluminum of and
3 galvanized steel.

1 17. (currently amended) A method of manufacturing a pliable structural
2 reflective insulating material capable of being formed into ducts and other structural
3 items comprising the steps of:

4 coating a first layer of reflective foil on one side with an adhesive

5 binding material;

6 placing a first layer of foam material against the coating;

7 laying a mesh material on the first layer of foam material;

8 placing a second layer of foam material over the mesh material;

9 coating a second layer of reflective foil on one side with an
10 adhesive binding material;

11 placing the second layer of reflective foil with the side coated
12 with an adhesive binding material against the second layer of foam
13 material; and

14 running the material through a heat press to bind all layers of
15 material together to form an integral structural reflective insulating
16 material.

1 18. *(currently amended)* A method of making an air duct from a pliable
2 structural reflective insulating material capable of being formed into ducts and other
3 structural items comprised of a first outer layer of reflective foil; an adhesive
4 binding coating material on an inner side of said first outer layer of reflective foil;
5 at least a first layer of foam material secured to said first layer of said reflective foil;
6 at least one layer of mesh material sandwiched between at least said first layer of
7 foam material and at least a second layer of foam material; at least a second layer
8 of foam material; a coating or adhesive binding material between the at least a
9 second layer of foam material and the at least a second inner layer of reflective foil;
10 and the at least a second inner layer of reflective foil, comprising the steps of;
11 folding a piece of the structural reflective insulating material as
12 many times as necessary so that ends of the piece form a channel; and
13 securing the ends together by securing means to form a desired
14 configuration.

1 19. *(original)* The method of forming the air duct in claim 18 wherein the
2 securing means consists of metallic tape.

1 20. *(original)* The method of forming the air duct in claim 18 wherein the
2 desired configuration is substantially rectangular.

1 21. *(original)* The method of forming the air duct in claim 18 wherein the
2 desired configuration is substantially circular.

1 22. (original) The method of forming the air duct of claim 21 wherein the

2 securing means further comprises an inward curved hook on one end of the material

3 and an outward curved hook on a second end, said curved hooks being

4 interconnected to lock the duct in the substantially circular configuration.

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